

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-13 (Canceled).

Claim 14 (Currently Amended): A cleaning device comprising:

a scraping up body and a dust picking means supported to a frame, said dust picking means including an adhesive for adhering dust to said dust picking means;

a tire by which the scraping up body rolls on a floor surface; and

a scraping up member which is capable of rotatably interlocking with a rotation of the tire, and scraping up dust from the floor surface to a side of the dust picking means,

wherein a speed increasing means for speeding up the rotation of the tire so as to transfer to the scraping up member is provided, and when viewing in an axial direction of the tire, a connection portion between the speed increasing means and the scraping up member is provided within a projection surface of the tire.

Claim 15 (Currently Amended): A cleaning device comprising:

a scraping up body and a dust picking means supported to a frame, said dust picking means including an adhesive for adhering dust to said dust picking means;

a tire by which the scraping up body rolls on a floor surface; and

a scraping up member which is capable of rotatably interlocking with a rotation of the tire, and scraping up dust from the floor surface to a side of the dust picking means,

wherein a speed increasing means for speeding up the rotation of the tire so as to transfer to the scraping up member is provided, and a rotational direction of the scraping up member is set to the same direction as a rotational direction of the tire.

Claim 16 (Original): A cleaning device according to claim 14 or 15, wherein the speed increasing means is a planetary gear train constituted by a sun gear which is provided in a rotation center of the scraping up member, a planetary gear which is pivoted to the tire so as to be engaged with the sun gear, and revolves around the sun gear, and an internal gear which is fixed to a side of the frame and engaged with the planetary gear.

Claim 17 (Original): A cleaning device according to claim 14 or 15, wherein the speed increasing means is a gear train constituted by an engagement between a large-diameter internal gear which is provided around a rotation center of the tire, and a small-diameter external gear which is provided around a rotation center of the scraping up member.

Claim 18 (Canceled).

Claim 19 (Currently Amended): A cleaning device comprising:  
a scraping up body and an adhesive roll supported to a frame in parallel, ~~and~~  
wherein the adhesive roll picks ~~picking~~ up dust from a floor surface scraped up by the scraping up body,

~~wherein~~ the cleaning device has a roll driving means for rotating the adhesive roll in an opposite direction to a rotational direction of the scraping up body,

~~wherein~~ the roll driving means is constituted by a rotating body which rolls on the floor surface while being supported to the frame, and rotates the adhesive roll based on the rotation,

~~wherein~~ the rotating body has a tire rolling on the floor surface, and a rotating element rotating the adhesive roll interlocking with the rotation of the tire, and

wherein a speed increasing means for speeding up the rotation of the tire so as to transmit to the rotating element is provided.

Claim 20 (Original): A cleaning device according to claim 19, wherein the speed increasing means is a planetary gear train constituted by a sun gear which is provided in a rotation center of the rotating element, a planetary gear which is pivoted to the tire so as to be engaged with the sun gear, and revolves around the sun gear, and an internal gear which is fixed to a side of the frame and engaged with the planetary gear.

Claim 21 (Original): A cleaning device according to claim 19, wherein the speed increasing means is a gear train constituted by an engagement between a large gear which is provided around a rotation center of the tire, and a small gear which is provided around a rotation center of the rotating element.

Claim 22 (Canceled).

Claim 23 (New): A cleaning device comprising:  
a scraping up body and a dust picking means supported to a frame;  
a tire by which the scraping up body rolls on a floor surface; and  
a scraping up member which is capable of rotatably interlocking with a rotation of the tire, and scraping up dust from the floor surface to a side of the dust picking means,  
wherein a speed increasing means for speeding up the rotation of the tire so as to transfer to the scraping up member is provided, and when viewing in an axial direction of the tire, a connection portion between the speed increasing means and the scraping up member is provided within a projection surface of the tire, and

the speed increasing means is a planetary gear train constituted by a sun gear which is provided in a rotation center of the scraping up member, a planetary gear which is pivoted to the tire so as to be engaged with the sun gear, and revolves around the sun gear, and an internal gear which is fixed to a side of the frame and engaged with the planetary gear.

Claim 24 (New): A cleaning device comprising:

a scraping up body and a dust picking means supported to a frame;

a tire by which the scraping up body rolls on a floor surface; and

a scraping up member which is capable of rotatably interlocking with a rotation of the tire, and scraping up dust from the floor surface to a side of the dust picking means,

wherein a speed increasing means for speeding up the rotation of the tire so as to transfer to the scraping up member is provided, and a rotational direction of the scraping up member is set to the same direction as a rotational direction of the tire, and

the speed increasing means is a planetary gear train constituted by a sun gear which is provided in a rotation center of the scraping up member, a planetary gear which is pivoted to the tire so as to be engaged with the sun gear, and revolves around the sun gear, and an internal gear which is fixed to a side of the frame and engaged with the planetary gear.

Claim 25 (New): A cleaning device comprising:

a scraping up body and a dust adhering body supported to a frame, said dust adhering body including an adhesive for adhering dust thereto;

a tire by which the scraping up body rolls on a floor surface;

a scraping up member which is capable of rotatably interlocking with a rotation of the tire, and scraping up dust from the floor surface to a side of the dust adhering body; and

a speed increasing device configured to speed up the rotation of the tire,

wherein when viewing in an axial direction of the tire, a connection portion between the speed increasing device and the scraping up member is provided within a projection surface of the tire.

Claim 26 (New): A cleaning device comprising:

a scraping up body and a dust adhering body supported to a frame, said dust adhering body including an adhesive for adhering dust thereto;

a tire by which the scraping up body rolls on a floor surface;

a scraping up member which is capable of rotatably interlocking with a rotation of the tire, and scraping up dust from the floor surface to a side of the dust adhering body; and

a speed increasing device configured to speed up the rotation of the tire,

wherein a rotational direction of the scraping up member is set to the same direction as a rotational direction of the tire.

Claim 27 (New): A cleaning device according to claim 25 or 26, wherein the speed increasing device is a planetary gear train constituted by a sun gear which is provided in a rotation center of the scraping up member, a planetary gear which is pivoted to the tire so as to be engaged with the sun gear, and revolves around the sun gear, and an internal gear which is fixed to a side of the frame and engaged with the planetary gear.

Claim 28 (New): A cleaning device according to claim 25 or 26, wherein the speed increasing device is a gear train constituted by an engagement between a large-diameter internal gear which is provided around a rotation center of the tire, and a small-diameter external gear which is provided around a rotation center of the scraping up member.

Claim 29 (New): A cleaning device comprising:

a scraping up body and an adhesive roll supported to a frame in parallel; and

a speed increasing device configured to speed up the rotation of the tire,

wherein the adhesive roll picks up dust from a floor surface scraped up by the scraping up body,

the cleaning device has a roll drive configured to rotate the adhesive roll in an opposite direction to a rotational direction of the scraping up body,

the roll drive is a rotating body which rolls on the floor surface while being supported to the frame, and rotates the adhesive roll based on the rotation, and

the rotating body has a tire rolling on the floor surface, and a rotating element rotating the adhesive roll interlocking with the rotation of the tire.

Claim 30 (New): A cleaning device according to claim 29, wherein the speed increasing device is a planetary gear train constituted by a sun gear which is provided in a rotation center of the rotating element, a planetary gear which is pivoted to the tire so as to be engaged with the sun gear, and revolves around the sun gear, and an internal gear which is fixed to a side of the frame and engaged with the planetary gear.

Claim 31 (New): A cleaning device according to claim 29, wherein the speed increasing device is a gear train constituted by an engagement between a large gear which is provided around a rotation center of the tire, and a small gear which is provided around a rotation center of the rotating element.